

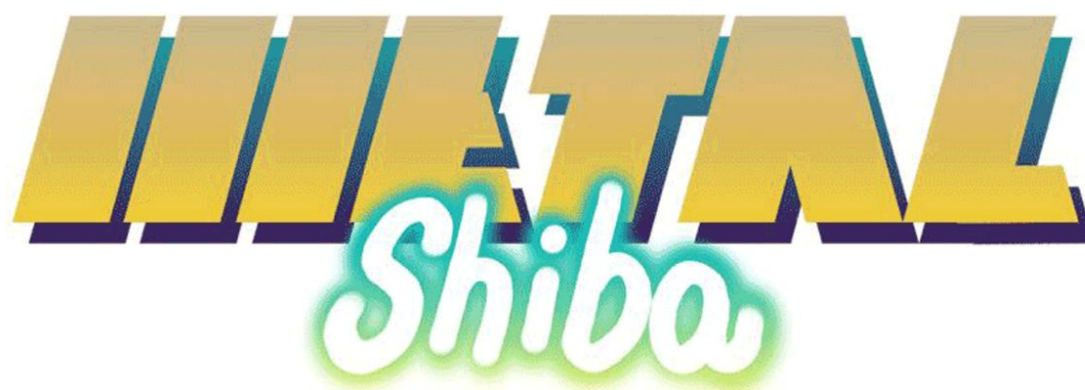
# Project Audit

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Project:  
**Metal Shiba**

May 25, 2022



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## Metal Shiba

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# Overview

This audit has been prepared for **Metal Shiba** to review the main aspects of the project to help investors make an informative decision in the research process.

You will find a a summarized review of the following main key points:

- Contract's source code
- Project and team
- Website
- Social media & online presence

**NOTE: We ONLY consider a project safe if they receive our "Certificate of Trust" NFT. This report only points out any potential red flags found in our analysis. Always do your own research before investing in a project.**

# Smart Contract Review

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.



*"The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal"*  
– SpyWolf Team

# Smart Contract Summary

Contract Name	MetalShiba
Ticker	METAL
Contract	0x5F97fe9ecbb3158107EF81378b837bc2CE3A7127
Network	Binance smart chain
Language	Solidity
Tax	<b>Buy: 8%</b> <b>Sell: 10%</b>
Total Supply	21,000,000,000
Status	Not launched

## Current stats

Burn	No burnt tokens
LP Address	Liquidity not added yet
Liquidity	Liquidity not added yet
MaxTxAmount	210,000,000

Issues Checking Status	
Design Logic	Passed ✓
Compiler warnings.	Passed ✓
Private user data leaks	Passed ✓
Timestamp dependence	Passed ✓
Integer Overflow and Underflow	Passed ✓
Race conditions and Reentrancy. Cross-function race conditions	Passed ✓
Possible delays in data delivery	Passed ✓
Oracle calls	Passed ✓
Front running	Passed ✓
DoS with Revert	Passed ✓
DoS with block gas limit	Passed ✓
Methods execution permissions	Passed ✓
Economy model	Passed ✓
The impact of the exchange rate on the logic	Passed ✓
Malicious Event log	Passed ✓
Scoping and Declarations	Passed ✓
Uninitialized storage pointers	Passed ✓
Arithmetic accuracy	Passed ✓
Cross-function race conditions	Passed ✓
Safe Zeppelin module	Passed ✓
Fallback function security	Passed ✓

## Featured Wallets

Owner address	0x64358a8Dd8AabEb7181be9d4341AC2aD87Fd8bC2
Marketing fee receiver1	0x88a0a39f4ed5322fa5Ede28d24602e241DEb26F4
Marketing fee receiver2	0xE4d073908fe4350d9004a01EEe66b32F74D5e4E4
Team fee receiver	0x2bB4E1D59770D48E32785d04043CE5646Cd85f50
LP address	Liquidity not added yet

## Top 3 Unlocked Wallets

Wallet 1 (100%)	Same as owner
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\*Tokens are not distributed yet



# Security Threats

**Owner can change buy/sell/transfer fees up to 20% (combined buy+sell = 40%).**

```
function setMultipliers(uint256 _buy, uint256 _sell, uint256 _trans) external onlyOwner {
    require(_buy <= 200, "Fees too high");
    require(_sell <= 200, "Fees too high");
    require(_trans <= 200, "Fees too high");
    sellMultiplier = _sell;
    buyMultiplier = _buy;
    transferMultiplier = _trans;
}

function setFees(uint256 _liquidityFee, uint256 _marketingFee, uint256 _teamFee,
uint256 _referralFee) external onlyOwner {
    require(_liquidityFee + _marketingFee + _teamFee + _referralFee <= 10,
    "Total Fees cannot be more than 10%");
    liquidityFee = _liquidityFee;
    marketingFee = _marketingFee;
    teamFee = _teamFee;
    referralFee = _referralFee;
    totalFee = _liquidityFee + _marketingFee + _teamFee + _referralFee;
}

function takeFee(address sender, uint256 amount, address recipient) internal returns (uint256) {
    uint256 multiplier = transferMultiplier;
    if(automatedMarketMakerPairs[recipient]){
        multiplier = sellMultiplier;
    } else if(automatedMarketMakerPairs[sender]){
        multiplier = buyMultiplier;
    }

    uint256 feeAmount = amount * (totalFee) * (multiplier) / (feeDenominator * 100);
    .....
}
```

# Security Threats

Owner can change discount price up to 30% for tokens purchased via contract's 'buytokens\_DiscountAndLock' function.

Tokens' redeem period can be changed up to 4 days as follows:

If discount is set at 0 - tokens redeem period is 0 days.

If discount is set below 10% - tokens redeem period is 1 day.

If discount is set between 10% and 20% - tokens redeem period is 2 days.

If discount is set above 20% - tokens redeem period is 4 days.

```
function updatediscount(uint256 _discount) external onlyOwner{
    require(_discount <= 30,"Discount too high");
    discount = _discount;
    if(_discount == 0)
        redeemPeriod = 0;
    else if(_discount <= 10)
        redeemPeriod = 1 days;
    else if(_discount >= 10 && _discount <= 20)
        redeemPeriod = 2 days;
    else redeemPeriod = 4 days;
}
```

**⚠** Owner can forbid claim of tokens purchased via contract's 'buytokens\_DiscountAndLock' function.

```
function set_Resale_state(bool status) external onlyOwner {
    Resale_open = status;
}

function RedeemTokens() external {
    .....
    require(Resale_open,"Not active yet");
    .....
}
```



# Security Threats

**Owner can set cooldown between sells up to 10 minutes.**

```
function updateCooldown(bool state, uint256 time) external onlyOwner{
    require(time <= 10 minutes);
    coolDownTime = time;
    coolDownEnabled = state;
}
```

# Security Threats

Owner can forbid tokens farming for new farmers that currently does not exist.

```
function set_farming_state(bool status) external onlyOwner {
    is_farmable = status;
}

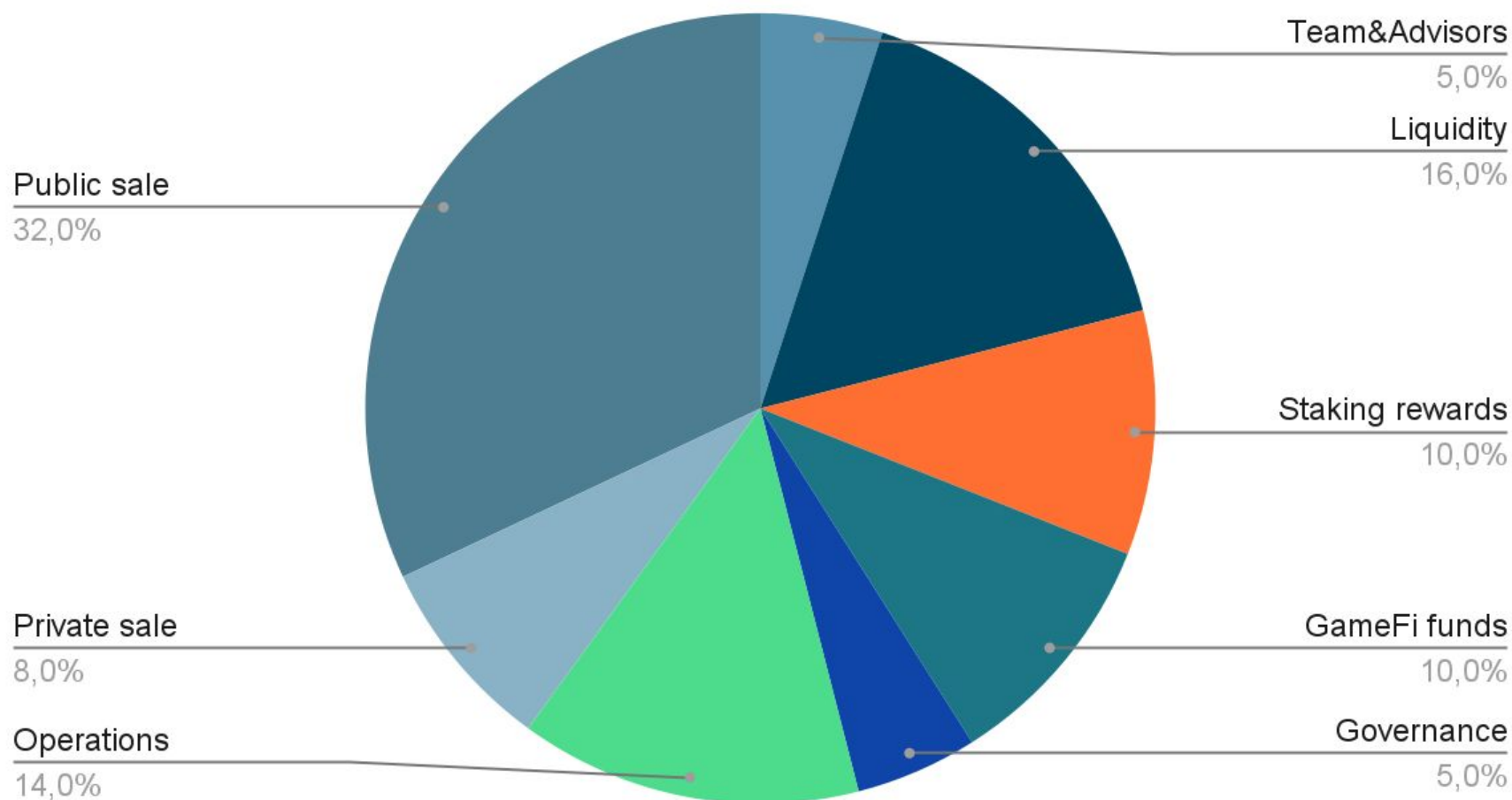
function farmTokens(address friend) external {
    require(is_farmable && is_farmer[msg.sender], "Not farmable");
    require(referred_by[friend] == msg.sender, "Wrong referral");
    require(!PointStaked[friend], "Already staked");
    require(balanceOf(friend) >= ReferTreshold, "Buy more");
    require(balanceOf(msg.sender) >= ReferTreshold, "Buy more");
    require(launchedAt != 0, "Not launched yet");
    require(block.timestamp - lastsync < 10 minutes, "Please sync earnings first");
    if(OGdeposit_time[msg.sender] == 0) {
        farmers.push(msg.sender);
        OGdeposit_time[msg.sender] = block.timestamp;
    }
    // Update the farming balance in mappings
    farm_active[msg.sender] = true;
    deposit_time[msg.sender] = block.timestamp;
    points_balance[msg.sender]++;
    PointStaked[friend] = true;
    total_points_balance++;
}
```

# Tokenomics

## According to their whitepaper:

- 8% - Private sale
- 32% - Public sale
- 16% - Liquidity
- 10% - Staking rewards
- 10% - GameFi funds
- 5% - Governance
- 5% - Team & Advisors
- 14% - Operations & Ecosystem

## Tokens distribution



# Metal Shiba

## Project & Team Review

According to their whitepaper:

MetalShiba will be utility token which will allow every user to perform several operations within their ecosystem, including the possibility to read their comic, interact with future Marketplace, play the game or stake to earn more tokens, and join the DAO. Members of the Metal Shiba DAO community (who own \$METAL tokens or OG NFTs) will be able to participate in voting, token rewards, and NFT rewards. The project will release exclusive collection of 6'000 unique NFTs which will give owners exclusive access to P2E game.

Future development of the project:

- NFT Marketplace
- NFT Launchpad
- NFT Staking service
- NFT Collections
- P2E (play to earn) game

### Team:

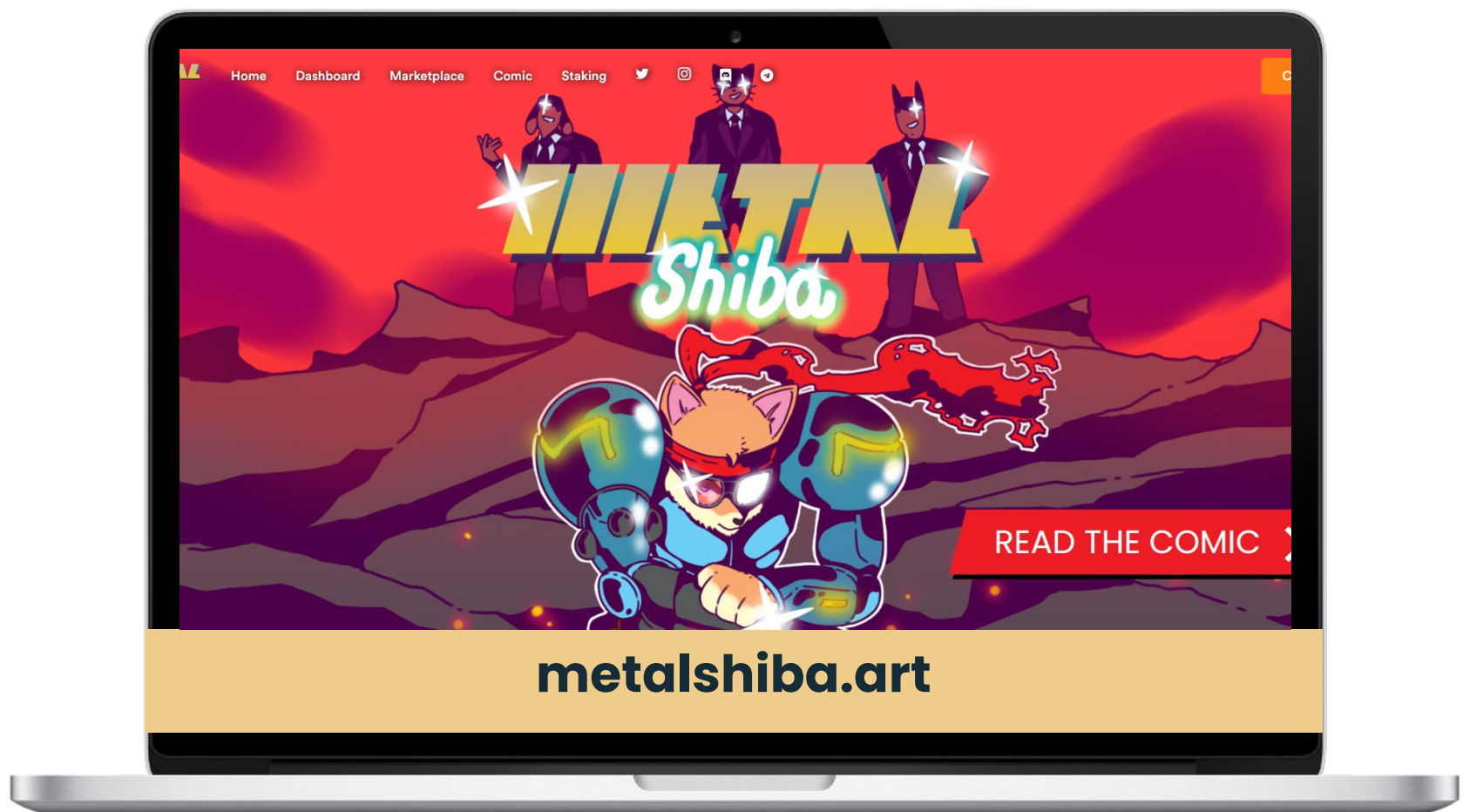
#### KYC by GemPad

[https://github.com/TheGemPad/GemPadOfficial/blob/main/KYC-Certificates/MetalShib\\_KYC\\_GemPad.pdf](https://github.com/TheGemPad/GemPadOfficial/blob/main/KYC-Certificates/MetalShib_KYC_GemPad.pdf)

# Website Analysis

URL: <https://metalshiba.art/>

- **Design:** Pleasant design, single page, appropriate color scheme.
- **Content:** Informative, no grammar mistakes.
- **Whitepaper:** Well written, explanatory.
- **Roadmap:** Goals set at 3 phases with time frames.
- **Mobile-friendly?** Yes
- **Technical:** SSL certificate present. General SEO check passed.





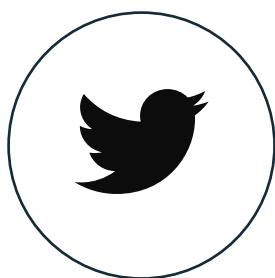
# Social Media & Online Presence



## Telegram

<https://t.me/metalshibainu>

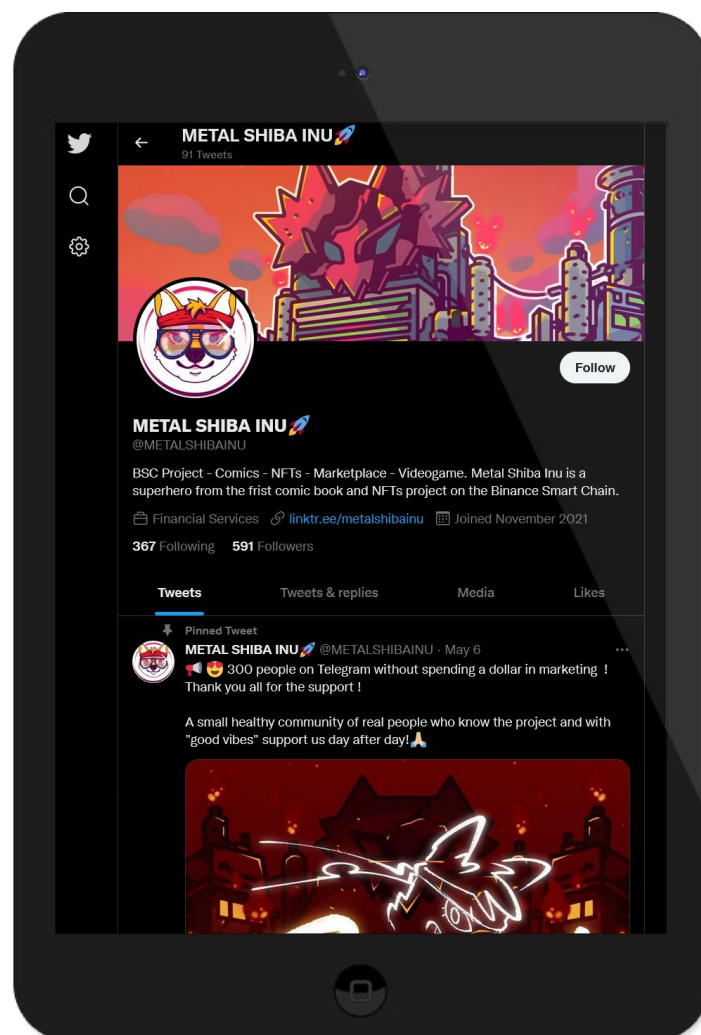
- 1 327 members
- Active members
- Active mods



## Twitter

<https://twitter.com/METALSHIBAINU>

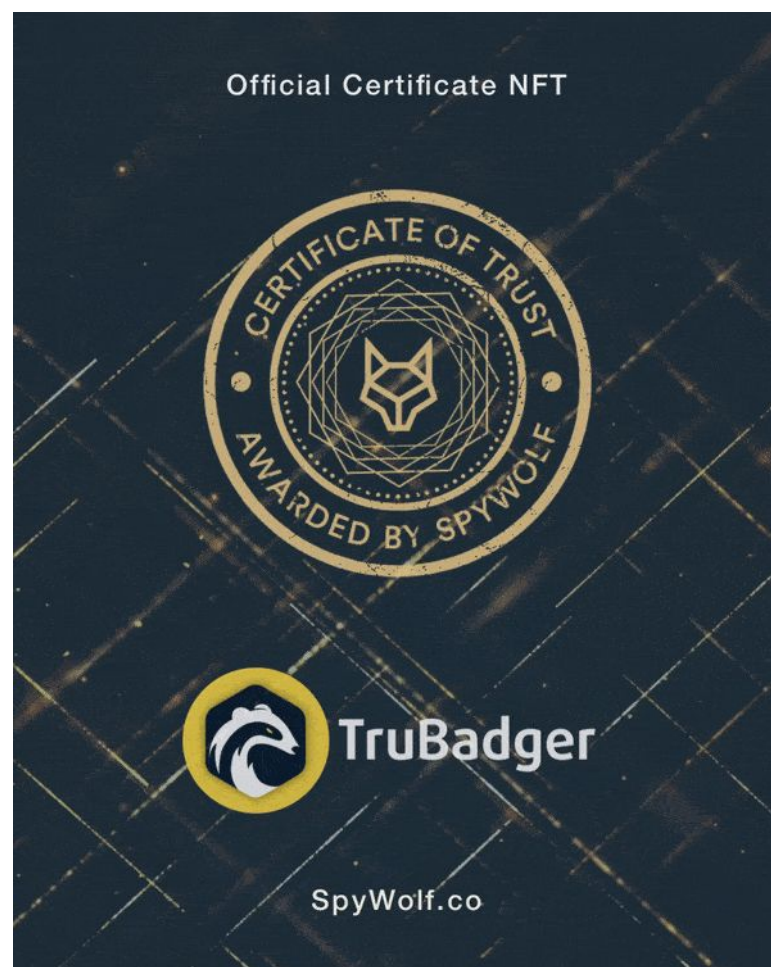
- 597 Followers
- Active



# About SpyWolf

SpyWolf is a team of crypto security experts that have been performing full audits for projects for the past months in order to ensure safety on the crypto space. Our goal is to help eliminate monetary fraud through our auditing services and utility token, \$SPY.

- Website: [SpyWolf.co](https://SpyWolf.co)
- Portal: [SpyWolf.network](https://SpyWolf.network)
- Telegram: [@SpyWolfNetwork](https://t.me/SpyWolfNetwork)
- Twitter: [Twitter.com/SpyWolfNetwork](https://twitter.com/SpyWolfNetwork)



(Sample Certificate NFT for those who pass audit)

**If you are interested in finding out more about our audits and Certificate of Trust NFTs, reach out to [contact@spywolf.co](mailto:contact@spywolf.co).**

# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.